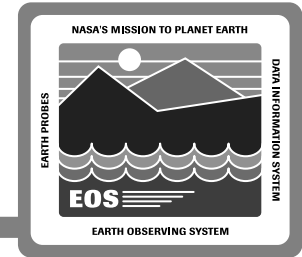


CSMS Services



FOS will be using the CSMS CSS and MSS services listed below. Details of these services and their interfaces are to be presented at the CSMS PDR workshop in January.

CSS Services

- **Security: Allows authorized users to access resources in a distributed computing environment securely and confidentially**
 - **Authentication**
 - **Authorization**
 - **Data Integrity**
 - **Encryption**

CSMS Services (cont.)



- **Message Passing:** Clients and servers running on different platforms Interchange data
 - Synchronous
 - Asynchronous
 - Multicast
- **Naming Service:** Provides clients with the capability to uniquely identify services and retrieve location information to communicate with servers. Also, to store and retrieve association containing names and attribute / value(s) pairs.
- **Time Service:** Keeps system clocks of all nodes in synch. Operations include obtaining timestamps, translate among different time formats, and perform calculation on timestamps.
- **File Transfer:** Provides access to local and remote files.
- **E-Mail Service:** Provides functions to manage electronic mail messages.

CSMS Services (cont.)



- **History Logging:** Allows applications to log event and history information to a database which can later be used for fault, performance or statistical analysis.
- **Bulletin Board:** Provides forum for sharing ECS related information.

MSS Services:

- **Configuration Management:** Provides the capabilities to manage baseline configuration changes, distribute software, manage licenses for commercial software, and real-time system management.
 - **Software Change Management**
 - **Software Distribution**
 - **License Management**
 - **Baseline Management**
 - **Change Request Management**
 - **Startup and Shutdown**

CSMS Services (cont.)



- **Fault Management:** Provides the capability to detect, isolate, diagnose and recover from faults occurring in network components , operating systems and applications
 - Fault Detection
 - Fault Isolation
 - Fault Diagnosis
 - Fault Recovery
- **Security Management:** Provides the management of security databases, compliance to established security policy, and the detection of intrusions.
 - Security Database Management
 - Compliance Management
 - Intrusion Detection

CSMS Services (cont.)



- **Performance Management:** Provides the capability to analyze the performance of network components, the operating system and software.
 - Monitoring
 - Analysis
 - Network Trending
- **Accountability Management:** Provides the capability to register new users (FOS Users), and the management of user audit trails
 - User Registration
 - User Audit Trails